

REMARKS

Amendments

Amendments to the Claims

Applicant has amended the claims to clarify the scope of the claimed address set. No new matter has been added as a result of these amendments, as the amendments are supported on page 5, lines 3-10 *et seq.*

Rejections

Rejections under 35 U.S.C. § 102(a)

Claims 1-3, 5-10, 12-15 and 18-20

Claims 1-3, 5-10, 12-15 and 18-20 stand rejected under 35 U.S.C. § 102(a) as being anticipated by Applicant's admitted prior art (APA). Applicant respectfully submits that the APA does not disclose each and every element of the invention as claimed in claims 1-3, 5-10, 12-15 and 18-20.

The Examiner is interpreting Applicant's claimed correlation between addresses in an address set as equivalent to correlations between preceding and current cache miss addresses as described in the Background section on page 2, lines 19-21. The Examiner asserts that the combination of the preceding and current cache miss addresses form an address set that is equivalent to Applicant's claimed address set. However, the address set relied on by the Examiner can only be created when the current miss address is determined. In contrast, Applicant's claimed address set is a pre-defined partition within an address space. There is no disclosure in Applicant's Background Section that teaches or suggests an address set as claimed.

Therefore, Applicant's invention as claimed in claims 1-3, 5-10, 12-15 and 18-20 is not anticipated by the APA under 35 U.S.C. § 102(a) and Applicant respectfully requests the withdrawal of the rejection of the claims.

Rejections under 35 U.S.C. § 102(b)

Claims 1-3, 5-10, 12-15 and 18-20

Claims 1-3, 5-10, 12-15 and 18-20 stand rejected under 35 U.S.C. § 102(b) as being anticipated by Alexander et al , *Distributed Prefetch-Buffer/Cache Design for High Performance Memory Systems*. Applicant respectfully submits that Alexander does not

disclose each and every element of the invention as claimed in claims 1-3, 5-10, 12-15 and 18-20.

Alexander creates a correlation between the addresses of two different memory blocks when one memory block contains the current cache miss address and the other memory block contains the previous miss address. Thus, Alexander correlates between addresses of memory blocks and does not correlate between addresses within memory blocks. Accordingly, there is no disclosure in Alexander that teaches or suggests correlating between addresses in the same address space partition as claimed.

Therefore, Applicant respectfully submits that the invention claimed in claims 1-3, 5-10, 12-15 and 18-20 is not anticipated by Alexander under 35 U.S.C. § 102(b) and respectfully requests the withdrawal of the rejection of the claims.

Rejections under 35 U.S.C. § 102(e)

Claims 1-4, 12-15 and 17-18

Claims 1-4, 12-15 and 17-18 stand rejected under 35 U.S.C. § 102(e) as being anticipated by U.S. Patent No. 6,516,389 to Uchihori. Applicant respectfully submits that Applicant's invention as claimed in claims 1-4, 12-15 and 17-18 is not anticipated by Uchihori.

Uchihori discloses a pre-fetch prediction table that correlates between disk drive address. Uchihori cannot be properly interpreted as teaching or suggesting correlations between addresses within the address space for a main memory as claimed by Applicant. Therefore, Uchihori does not anticipate the invention as claimed in claims 1-4, 12-15 and 17-18 and Applicant respectfully requests the withdrawal of the rejection of the claims under 35 U.S.C. § 102(e).

SUMMARY

Claims 1-20 are currently pending. In view of the foregoing amendments and remarks, Applicant respectfully submits that the pending claims are in condition for allowance. Applicant respectfully requests reconsideration of the application and allowance of the pending claims.

If the Examiner determines the prompt allowance of these claims could be facilitated by a telephone conference, the Examiner is invited to contact Sue Holloway at (408) 720-3476.

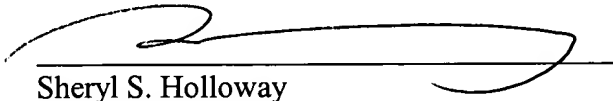
Deposit Account Authorization

Authorization is hereby given to charge our Deposit Account No. 02-2666 for any charges that may be due. Furthermore, if an extension is required, then Applicant hereby requests such extension.

Respectfully submitted,

BLAKELY, SOKOLOFF, TAYLOR
& ZAFMAN LLP

Dated: FEB. 25, 2005


Sheryl S. Holloway
Attorney for Applicant
Registration No. 37,850

12400 Wilshire Boulevard
Seventh Floor
Los Angeles, CA 90025-1026
(408) 720-3476